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DEPARTMENT: Manufacturing
REPORTS TO: Director of Manufacturing

1.0 POSITION SUMMARY:

The CNC Programmer is responsible for developing software programs that direct CNC (computer numerically controlled) machines to cut and shape a variety of materials (primarily metals) to produce components and other industrial machined parts and tools utilized in the aerospace industry. In addition to programming responsibilities, the position also has responsibility for some level of operation of CNC and other machines as required.

2.0 PRIMARY RESPONSIBILITIES / DUTIES:

CNC Programmer

- Using 3-dimensional computer designs (CAD models) and/or blueprints that define the configuration of the required component, the CNC Programmer will use CAM (computer-aided manufacturing) software programs to generate the program code that guides CNC machines to perform machining operations that result in precise finished components.
- Responsible for using CAM software (ie. Mastercam) to generate program code that controls the operations of a CNC machines (ie. mills, lathes) to perform a series of machining operations (rough cutting, finish cutting, shaping, pocketing, profiling, turning, drilling, tapping, threading, etc.) to produce the required components.
- Analyze engineering instructions, drawings, blueprints, specifications and design data to calculate dimensions, tool selection, machine speeds and feed rates.
- Generates program code using computer-aided-manufacturing (CAM) software, runs simulation tests, conducts quality testing and corrects/improves program code to increase efficiency, quality and safety.
- Acts as a liaison for engineers and CNC machine operators to ensure a high quality product.
- Revises programs to eliminate errors and re-tests programs to ensure problem resolution
- Observes CNC machines on trial runs or conducts computer simulations to ensure that programs and machinery will function properly and produce items that meet specifications.
- Determine reference points, machine cutting paths and compute angular and linear dimensions, radii and curvatures.
- Compare computer printouts with original part specifications and blueprints to verify accuracy of instructions
- Enters coordinates into program memories, writes / stores programs and modifies existing program as may be required.
- Interacts with other programmers, shop floor management, machinists (setup/operators) engineering and sales staff to ensure expectations are consistently met.
- Ensure that code that is written complies with all safety rules and regulations, including safety controls for data inputs, adjustments and edits.

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Machinist

- Responsibility for 100% OTD for all machining projects. Operations to include:
- Manufacturing of components from blue prints and solid models using Master Cam software.
- The ability to work from hand sketches and concepts to deliver R&D prototypes.
- Operating lathes and milling machines (manual and CNC) along with other equipment used in a small shop environment.
- Programming CNC equipment for operation by semi-skilled employees in a production run environment.
- Maintaining tool inventory of shop.
- Performing routine maintenance and service of all equipment in the shop and maintaining TPM logs.
- Measuring, examining and testing completed units in order to detect non-conformances using precision instruments such as micrometers.
- Maintain safe operations by adhering to safety procedures and regulations.
- Monitoring the feed and speed of machines during the machining process to improve efficiency and quality.
- Planning the sequence of the cutting and finishing operations.

3.0   MINIMUM QUALIFICATIONS:

(All qualified candidates MUST meet All of these Minimum Qualifications with No exceptions.)

- High School diploma or GED.
- 5 years of related experience programming 3, 4 &5 axis machines
- Computer proficiency with 3D Cam Model software
- Knowledge of electronics and machine tools.

4.0   PREFERRED QUALIFICATIONS:

- Associate's degree in CNC programming, a computer-related field or a mechanical field or Bachelor's degree in computer programming or computer-related field.
- Small machine shop work experience.
- Tool/fixture making experience.
- Ability to use drafting and/or modeling software (AutoCAD SolidWorks)
- Understanding of lean concepts.
- Mechanical experience and willingness to cross-train and work within other disciplines.

5.0   COMPETENCIES:

- Superior computer programming skills
- Experience with MasterCam or other CNC programming tools.
- Mechanically inclined with the ability to read complex spreadsheets and blueprints

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- Excellent written and verbal communication skills with the ability to establish effective relationships across multiple disciplines.
- Decision making/problem solving skills
- Excellent reading comprehension skills in addition to good active listening skills
- Strong math skills, especially algebra, trigonometry and physics
- Excellent time management skills with the ability to prioritize workload
- Highly detail oriented with the ability to organize and plan work with little or no supervision

6.0 OTHER:

- Be a contributing member of teams including production engineering and management to define and improve processes that support corporate goals.
- Help develop a strong production staff that can flex to meet shifting demands due to production mix.